

Nanopublication – Computational Image Analysis –
AQC0472

by Arnaud Quercy · The city bird of Fuchu, Tokyo - Variations 2 · 2023



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC0472

The [1] artwork The city bird of Fuchu, Tokyo - Variations 2 (AQC0472) [2] by Arnaud Quercy [2] underwent comprehensive computational analysis [3] on 2026-02-04. Method: k-means clustering with 10 colors extracted. Metrics documented: color distribution, texture analysis, brightness/contrast, spatial patterns.

CONTEXT

Analysis performed according to MMIDS-CMP-2025 [3] includes four metric categories: (1) Color distribution via k-means (10 colors), (2) Texture analysis using Haralick features, (3) Brightness and contrast measurements, (4) Spatial pattern characterization. Source image [5]: 526x701 pixels. Analysis date: 2026-02-04.

COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		AB926E	17.7	yellow-orange	rosybrown
2		C2A785	17.6	yellow-orange	tan
3		D4BA9F	14.2	orange	burlywood
4		947753	11.3	yellow-orange	gray
5		E3D6C4	10.8	yellow-orange	lightgray
6		624B5A	7.0	red-violet	dusty mauve
7		765332	6.8	orange	russet
8		433538	6.6	red	darkslategray
9		29170C	4.1	orange	very dark gray
10		5A6F89	3.9	blue-violet	grayish purple
11		818F26	0.3	yellow-green	olivedrab [Accent]
12		6B6A06	0.3	yellow	olive [Accent]
13		8F3427	0.3	red-orange	brown [Accent]

Color Families:

Family	%
yellow-orange	57.3
orange	25.1
red-violet	7.0
red	6.6
blue-violet	3.9
yellow-green	0.3
yellow	0.3
red-orange	0.3

Accent Colors:

Hex	Family	Name	Chroma
818F26	yellow-green	olivedrab	54.4
6B6A06	yellow	olive	49.0
8F3427	red-orange	brown	47.2

TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.203
Mean Local Roughness	0.046
Roughness Uniformity	0.027
Edge Density	0.269
Mean Gradient Magnitude	0.324
Gradient Variance	0.1
Gradient Smoothness	0.023
Directional Coherence	0.01
Pattern Complexity	0.12
Pattern Repetition	1.0
Detail Frequency Ratio	0.63
Spatial Variation	0.114
Texture Consistency	0.811

BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.558
Brightness Variance	0.203
Brightness Uniformity	0.636
Brightness Skewness	-0.481
Brightness Entropy	7.613
Rms Contrast	0.203
Michelson Contrast	1.0
Weber Contrast	0.673
Mean Local Contrast	0.046
Contrast Uniformity	0.395
Dynamic Range	0.996
Effective Dynamic Range	0.659
Shadow Percentage	16.888
Midtone Percentage	47.574
Highlight Percentage	35.538
Shadow Clipping	0.024
Highlight Clipping	0.0
Tonal Balance	0.306
Fine Contrast	0.031
Medium Contrast	0.056
Coarse Contrast	0.074
Multiscale Contrast Ratio	0.421
Edge Contrast	0.324
Contrast Clustering	0.189

SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.692
Color Clustering	0.817
Color Transition Smoothness	0.156
Transition Uniformity	0.272
Sharp Transition Ratio	0.1
Transition Directionality	0.01
Mean Saturation	0.348
Saturation Variance	0.033
Low Saturation Ratio	0.435
Medium Saturation Ratio	0.517
High Saturation Ratio	0.048
Saturation Clustering	0.996
Hue Concentration	0.783
Complementary Balance	0.08
Analogous Dominance	0.838
Temperature Bias	0.822

Methodology

This analysis employs standardized computational methods for objective image characterization. Color extraction uses k-means clustering algorithm. Texture analysis applies Haralick feature extraction. Brightness metrics include mean, variance, and distribution analysis. Spatial patterns are characterized through coherence and clustering measurements. All methods are deterministic and reproducible. Analysis performed by Multimodal Institute's computational imaging systems.

REFERENCES

[1] Arnaud Quercy (2023). The city bird of Fuchu, Tokyo - Variations 2 - Catalog raisonn  . <https://arnaudquercy.art/en/catalogue-raisonne/AQC0472.html>

[2] Quercy, A. (2025). Untitled - Gallery. https://artquamanima.com/en/artworks/2023/01/the-city-bird-of-fuchu-tokyo-variations-2_5bs.html

[3] Quercy, A. (2025). Computational Image Analysis Standard - MMIDS-CMP-2025 <https://multimodal.institute/en/publications/2025/11/mmids-cmp-2025-computational-image-analysis-standard-dg1.html>

WHERE THIS WORK LIVES

THEMATIC ELEMENTS

geometric abstractionurban nature

watercolor miniaturecontemporary art

Nature in the city collectionyellow-orange composition

Fuchu Tokyobird abstraction

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

440f3406e281eb08670e1ffc8247a21af25c98c24d90dadc77f90b48993d4b1d

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